

The Redstone Rocket

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VOL. XIV; NO. 6

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

JUNE 23, 1965

Arsenal-Wide

Spot News

Dial 112

GENERAL IS HONORED

Gen. Besson To Speak To AUSA

Gen. Frank S. Besson, Jr., Commanding General of the U. S. Army Materiel Command, Washington, D. C., will be the principal speaker at the June 30 meeting of the Tennessee Valley Chapter of the Association of the U. S. Army.

The talk will be the first public address in this area by the four-star general who heads the organization responsible for equipping the Army. The U. S. Army Missile Command here at Redstone Arsenal is a major commodity command of Besson's organization. The Nike-X Project Office at Redstone Arsenal also reports to Besson.

Maj. Gen. John A. Barclay, Ret., president of the local AUSA chapter, said the annual installation of the new chapter officers has



GEN. F. S. BESSON, JR.

also been scheduled for the meeting.

Key Army commanders from other major activities in the southeast are being invited to attend the meeting as the chapter's guests. The meeting will be the first since the local chapter completed its recent membership drive which raised AUSA membership locally to more than 4,000.

The largest and most complex new element created in the 1962 reorganization of the Army, Besson's Army Materiel Command operates with an inventory of more than \$20 billion and an annual expenditure of about \$8 billion. AMC directly employs about 180,000 military and government civilian personnel and handles almost all Army contracting with business and industry.

Besson's talk will highlight the dinner meeting scheduled to begin at 6:30 p.m. in the Redstone Arsenal Officers' Open Mess.

APPOINTED BOARD MEMBER

Brig. Gen. Charles W. Eifler will replace Brig. Gen. Howard P. Persons on the Board of Trustees for the Redstone Federal Credit Union, according to President Harold Carpenter.

Carpenter is attending the annual meeting of the Alabama Credit Union League in Montgomery this week.

Two Versions Of MAW Are Successful

Two versions of the new medium anti-tank weapon (MAW) have been fired successfully at a Redstone Arsenal range, the Army announced today.

Both versions are being designed for use against tanks and other armored vehicles, the Army said, and both could be used by infantrymen at the platoon level, either defensively or as an assault weapon.

Either concept will provide a weapon that can be carried and shouldered fired by one soldier.

One version is known as the directional-control, medium anti-tank weapon (DC-MAW) and is being developed "in house" by the Research and Development Directorate at the Army Missile Command. It features a self-contained guidance system which permits it to fly swiftly along the line of sight established by the gunner.

Another concept of the MAW, being developed by McDonnell Aircraft Corp., uses fine connecting wires between the launcher and the missile.

The Army will select one of the two versions for further development sometime in the near future.

Both versions of the MAW are managed by the Missile Command, under the direction of Lt. Col. John H. Boyes, Project Manager.



LEGION OF MERIT WINNER—Brig. Gen. Howard P. Persons (left) received the Presidential Legion of Merit in ceremonies held Friday at Redstone Arsenal. Maj. Gen. John G. Zierdt, Commanding General of the Missile Command, made the presentation.

Receives Legion Of Merit

A Legion of Merit with First Oak Leaf Cluster was awarded this afternoon to Brig. Gen. Howard P. Persons, Jr., who is leaving the Army Missile Command where he served as Deputy Commanding General for Air Defense Systems.

Presentation was made by Maj. Gen. John G. Zierdt, Commanding General of the Missile Command, at a military parade at Redstone Arsenal. Gen. Persons has been reassigned to the Army Air Defense Command in Colorado Springs, Colorado.

The Legion of Merit is awarded by the President of the United States for exceptionally meritorious conduct in the performance of outstanding services.

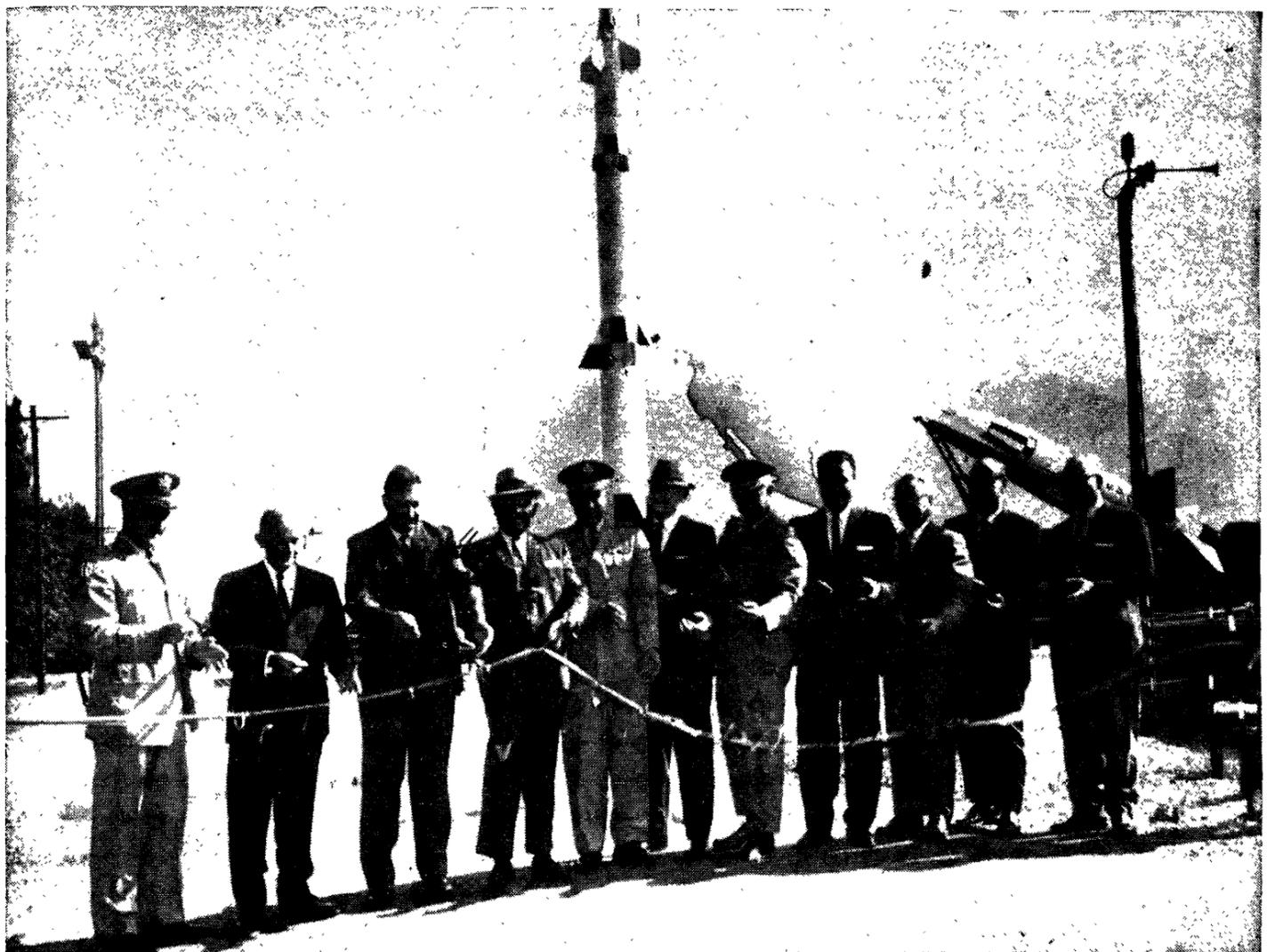
General Person's citation read: "Brig. Gen. Howard P. Persons, Jr., U. S. Army, distinguished himself by exceptionally meritorious service while serving in positions of responsibility from August 1962, to June 1965. During this period, Gen. Persons served intermittently as Deputy Commanding General and Commanding General, U. S. Army Missile Command, Redstone Arsenal, Ala. By his exemplary management of complex missile programs, from research and development through deployment, (See GENERAL on Page 3)

One Thousand Plus Visit Army's Missile Display

An estimated 1,300 people from over the Tennessee Valley toured the U.S. Army's Missile Display Area here over the past weekend and saw what probably is the Free World's most awesome display of modern weapons.

The exhibits, centered in three

giant airdomes just west of Patton Road on the northern boundary of the military installation, were first opened to the public on a permanent basis last Friday at a formal ceremony. They have been set up by the four Army installations (See DISPLAY on Page 3)



NOW YOU SEE THEM, NOW YOU DON'T—These Army and community leaders appear to be applauding. Actually, however, they have just popped a string of helium filled balloons which was suspending the ceremonial ribbon. The occasion was the formal opening the past Friday of the Army's Missile Display Area just

off Patton Road. Those taking part in the ceremony were, left to right: Col. Thomas W. Cooke, Milton K. Cummings, Joseph Davis, J. E. Harris, Maj. Gen. John G. Zierdt, M. B. Spragins, Col. H. V. Smith, James Record, Maj. Gen. John A. Barclay (Ret.), Lloyd Little and William H. Stevens.

The Redstone Rocket

The Redstone Rocket is published weekly, on Wednesdays. The publisher will receive editorial content for publication in the Rocket only through the Information Office, Army Missile Command, Redstone Arsenal, Ala., Bldg. 5250, Room A-136, Extension 376-1400 or 376-1500.

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It's Yours . . . Use It

What kind of answer do you give when members of your family or friends ask "What do you do for the Army at the Arsenal?"

Because of the very nature of work being done here, none of us can go into any description in depth, and sometimes it is embarrassing to have to pass off your daily job in some light or flighty manner.

But now you have at hand a ready solution to this dilemma: a solution that eases your explanation, ties in your job with a complete picture of Army operations and, at the same time, provides relaxation and entertainment to all.

This, of course, is the Army Missile Exhibit Area which opened this week on a permanent basis.

It is important to have an area available for orientation of new Army civilian and military personnel. It is important to have an area where visitors to this community can see the results of the Army's efforts in providing the best possible hardware for the nation's defense.

And it is of equal importance that the new Missile Exhibit Area provides a visual answer to the question of family and friends of each of the Army's more than 10,000 employees at Redstone.

Make it easy for yourself by placing the missile exhibit area high on your list of "places to see and things to do in Huntsville."

Macpherson Presented Legion Of Merit Award

The coveted Armed Forces Legion of Merit has been awarded to Col. William J. Macpherson, commandant at the U.S. Army Ordnance Guided Missile School. He departed last week for an assignment in Korea.

Macpherson was cited for exceptionally meritorious service as school commandant and in other key staff positions at the School where he has served for the past five years.

A citation accompanying the award cited Macpherson for the initiation of a program that improved maintenance on training equipment by some 80 per cent and that secured a saving of 360 man months of maintenance effort.

It also lauded Macpherson for the emphasis he placed on cost reduction and reduction of excess equipment which resulted in the redistribution of equipment valued at \$11,000,000.

Included in the list of accom-

plishments by Macpherson was a reference to his initiation of a community-wide hospitality program affecting students from 17 nations.

LISCOMB NAMED HEAD

A long-time coach of amateur track and field competitors, Jesse R. Liscomb, has been named mentor of the 1965 All-Army Track and Field Team. Liscomb was head coach of last year's All-Army Team which produced five men for the U.S. Olympic Team at Tokyo, including Gold Medalist Paul Drayton of Fort Campbell, Kentucky. Last summer Liscomb was manager of the United States squad which ran against the Soviet Union at Los Angeles. This year's All-Army Track and Field Team opened its official trails at Fort Eustis, Virginia, early this week.

DRIVE SAFELY



ISRAEL DISPLAYS HAWK—Shown parading in Jerusalem during the recent celebration of Israel's Independence Day are members of a Hawk air defense missile unit trained last year at the U. S. Army Ordnance Guided Missile School. Israel purchased rights to the Hawk missile system from the U.S. and sent its first unit here and to Fort Bliss, Texas, for training.



FATHER'S DAY CAME EARLY—Mrs. McDaniel and their five children turned out the past Tuesday when John L. McDaniel was presented the Department of Army's Decoration for Exceptional Civilian Service. Maj. Gen. John G. Zierdt made the presentation to the Technical Director of the Directorate of Research and Development. From left to right are: Bonnie, Mrs. McDaniel, William, Gen. Zierdt, Mr. McDaniel, John Jr., and Mark.



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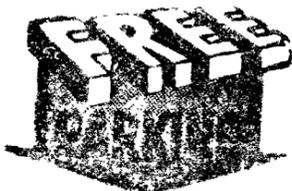
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Third Army CG Honored

HEADQUARTERS, THIRD US ARMY, Fort McPherson, Ga. — Lt. General C. W. G. Rich, command-

ing general of the Third US Army, will be honored at a retreat review to day before his departure from Ft McPherson, Ga. He has been reassigned as deputy commanding general of the Eighth US Army, Korea.

Units bearing the colors of the major Third Army installations where Gen. Rich has served will participate in the colorful review to be held at Hedekin Field at 5 p.m.

Displaying their colors will be the US Army Infantry Center and The Infantry School, Ft. Benning, which Gen. Rich commanded before coming to Ft. McPherson in August 1964; the 101st Airborne Division and Fort Campbell, Ky., where Gen. Rich served as commanding general from July 1961 through February 1963 and as assistant division commander from May 1958 to September 1959; and 82nd Airborne Division, Fort Bragg, N.C., where he served consecutively as regimental executive officer, personnel officer, and chief of staff from 1950 to 1952.

The Third Army Band will participate in the review, which commanders of major installations and commands of the Third US Army will attend. Other guests will include civic, business and educational leaders of the Greater Atlanta Metropolitan Area.

Following the review Gen. and Mrs. Rich will be honored at a reception at the Officers Open Mess.

GENERAL

(Continued From Page 1)

Gen. Persons made unparalleled contributions to the accomplishment of the total Army mission. He displayed great leadership and vision in effecting plans for missile defense and air defense systems vital to the security of the nation and its allies"

DISPLAY

(Continued From Page 1)

located on Redstone Arsenal, the Missile Command, Missile Support Command, Nike-X Project Office and Ordnance Guided Missile School.

Army officials were more than pleased with the reception given the Missile Display Area by the people of North Alabama and southern Middle Tennessee the first two days.

In one of the air-supported domes, visitors can see a 17-minute film, "This Is Redstone," in an air conditioned 120-seat theater. The

CONCERT SCHEDULE

Two band concerts are scheduled during the next two weeks at the U.S. Army Display Area on Redstone Arsenal, giving visitors a musical background for touring the exhibits. The Huntsville Space Cadets will perform from 1 to 4 p.m., June 26 and 27, and July 5. On the Fourth of July, the 55th Army Band, stationed at Redstone, will play from 1 to 4 p.m.

Army Ordnance Guided Missile School has several exhibits in the same dome which demonstrate the work of the Redstone educational institution that trains some 5,000 students every year on its \$65 million campus.

The big center airdome covered with a map of the northern hemisphere, 150 feet in diameter and 85 feet high in the center, houses a variety of exhibits. To be seen there are drones used for target practice, the capsules in which Monkey Able rode on its Explorer flight into space, and the motor from a Jupiter intermediate range ballistic missile.

Most of the operational members of the Army's family of missiles are on display on the grounds around the airdomes. Among them are Hawk, the ground-to-air missile now deployed in Vietnam; Nike-Zeus and Sprint, part of the Nike-X system for defense against ballistic missile attack; and Honest John, an old warrior of the missile age which has been in operation since the early 1950s.

The Missile Display Area is open Tuesday through Saturday from 1 to 5 p.m., and Sunday from 10 a.m. to 5 p.m. It is closed Monday. Water and rest room facilities are available in the area.

Welcome Mat

The ROCKET extends a welcome to the following named civilian employees who have recently started employment with Army organizations at the Arsenal.

ARMY MISSILE COMMAND

Research & Development: Paul J. Alexander, Leon W. Bonner, Jr., James R. Brasfield, Yvonne Y. Clark, Martha A. Cornhill, Kathleen M. Hall, Lillie M. Harden, John R. Harrison, Jane R. Helton, Lester R. Hopkins, Alton C. LeCroy, Jr., William J. McCormick, Stoney Massey, Sarah A. Mays, Robert N. Parks, Edward J. Planz, Edward L. Preston, Thomas G. Rhodes, David Richardson, Hans S. Sieber, James R. Smith, Vincent W. Sparks, Jr., Lee E. Sumner, Jr., James A. Watson, Joan B. Work, Phillip W. Coulter, William L. Kimmons, Charles S. Maples and Donald R. Maples.

Procurement & Production: Adella S. Bodine, William C. Brown, Jr., Ina M. Harris, Alan F. Higginbotham, Dorothy L. Johnson, Milton K. Johnston, Jr., Sandra F. Levens, James M. McDonald, Thomas D. Mize, Jay M. Myers, Joe W. Pruett, Ramona J. Varnell, Carrie S. Armbruster, Clara S. Cranford, Wanda D. Douthit, Mary B. Freeman, J. Vaughn Hamm, Willie M. Hatley, Barbara S. Nix, Bette L. Payne and Glenda G. Payne.

Others: Margaret Ann Johnson,



LANCE WINS SUGGESTION PLAQUE—John A. Robbins, Lance Deputy Project Manager accepts the Commander's Suggestion Plaque from Maj. Gen. John G. Zierdt, Commanding General of the Army Missile Command. The award went to the Lance project on the basis of 63 suggestions for 1000 employees in the Quarter ending March 31. Overall Army objective is 69 suggestions per thousand employees per quarter. The presentation was made following the General's weekly Staff Meeting.

BIRTHS AT THE POST HOSPITAL

Charles Dominic Bradley, June 9, son of CWO and Mrs. Charles O. Bradley.

Margaretha NMN Tackett, June 9, daughter of SSGT and Mrs. Franklin D R Tackett.

Robin Le Ann Curtis, June 12, daughter of SSGT and Mrs. Jerry L. Curtis.

Susan Francine Machnica, June 14, daughter of SP5 and Mrs. Raymond B. Machnica.

Joni Kay Smith, June 12, daughter of SFC and Mrs. Clinton Smith.

Bennie Byrd Jr., June 13, son of SP5 and Mrs. Bennie Byrd Jr.

and Mary J. Hargrave, both with Supply & Maintenance; Thelma L. Fliszar, Special Assistant, CE; Sara L. Parton, Hawk Project Office; and William E. Salter, Missile Intelligence.

NIKE-X PROJECT OFFICE

Larry D. Owens and John H. Starnes.

ARMY MISSILE SUPPORT COMMAND

Joan M. Coblenz, Patricia S. Pike, Charles C. Rollins, Jr., Nancy A. Woodall and Joann G. Gilbert.

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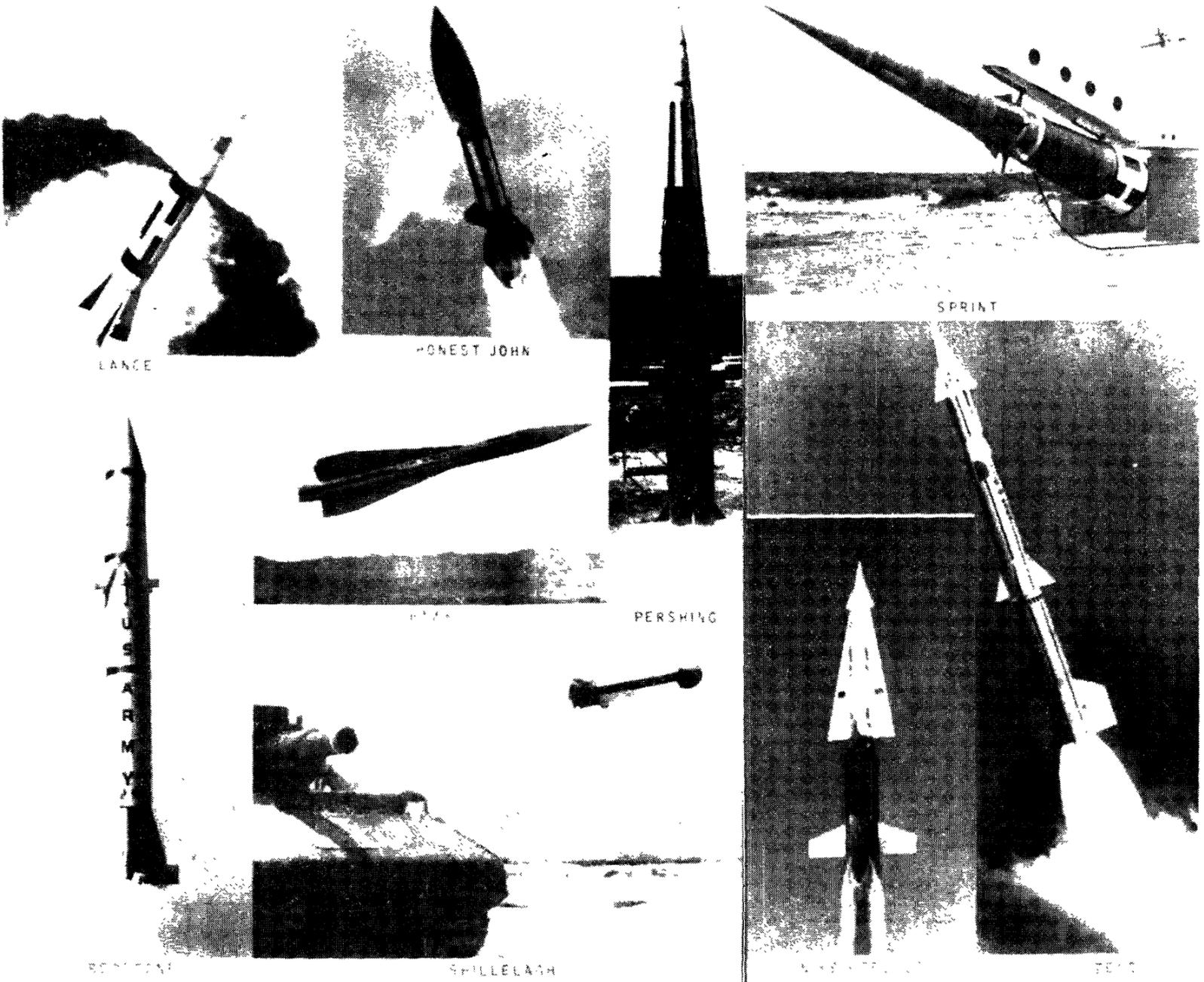
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MISSILES ARE LIKE BULLETS WITH FINS—This picture shows the shape of nine Army missiles which have been developed and managed by the Army

Missile Command. Take off the fins and they almost look like giant bullets. This isn't a chance resemblance, since the cylinder with conical nose is almost

ideal for an airborne projectile, whether it is a missile or a bullet. Missile Command engineers say "it's hard to improve on the shape . . ."

Bullets Grow Massive, Develop Fins To Fly

Take the fins off the missiles in today's modern Army, and you've got an arsenal of what looks like giant bullets. And this isn't just a chance resemblance, either.

"It's hard to improve on the shape of a bullet," says William A. Lewis, Chief of the Structures and Mechanics Laboratory of the U. S. Army Missile Command's Research and Development Directorate. He claims that familiar profile—cylinder with conical nose—is almost ideal for an airborne projectile, especially a missile.

One-hundred-thirty years have made a difference in the size, range, propulsion and guidance of a bullet, but not in the overall shape. One of the first pointed bullets was the Minie Ball, which both the North and South fired from muzzle-loading guns during

the Civil War. The Army's newest missile, the Lance, looks a lot like a big Minie Ball.

The Chief of the Aerodynamics Branch in the Advanced Systems Laboratory, Raymond A. Deep, lists three things which influence the shape of a missile. They are structure, how it will be powered, and aerodynamics or how air will blow over its body in flight.

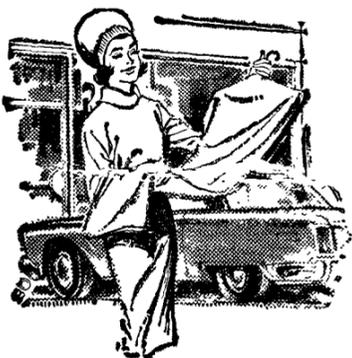
The shape of a missile really is established in the preliminary design phase of development. "There is a multitude of conflicting characteristics to be considered," says Deep. "Depending on the requirements of the missile and their priorities, there is a 'trade-off' of these elements until we achieve the final product."

Disregarding any one of the three influencing elements means that the metal bird will not fly. If the structures man had his

way about the shape, the missile probably would be a mass of steel girders. A missile as sleek as a

needle would be the end product if aerodynamics was the only element of design considered. The

scientist in the propulsion laboratory might decide on a missile in (Continued on Page 5)

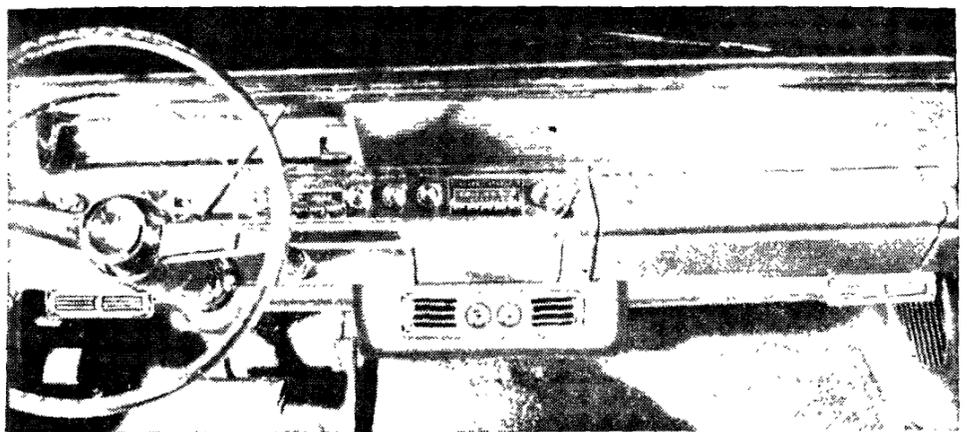


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BULLETS GROW
(Continued From Page 4)

the shape of a sphere. None of these would be of much use by itself, but scientists and engineers have combined features from all these and have come up with missiles that hit their targets.

There are several reasons why the cylindrical missile with the coneshaped nose is seen so often. For one thing, it is relatively cheap to produce. And it pierces the atmosphere with the least resistance, fitting in nicely with the aerodynamic scheme. Also, the cylinder is a rigid structure and good pressure vessel for housing a missile propulsion system.

Deep says he does not foresee any drastic changes in the shape of the missiles and rockets for years to come just as there hasn't been with bullets. "But," he adds, "I don't think we can ever standardize it. The different shapes depend on what the missile is supposed to do once it is launched and under what tactical conditions."

One of the Army's earliest operational rockets, the Honest John, is a missile whose shape was dictated by the amount of payload and the availability of a certain type motor. The solid propellant motor already had been developed. The weight and size of the warhead couldn't be reduced, so a big, bulbous nose was necessary to house it. This shape, which is far from being streamlined, was allowed because of the low drag of the short-range surface-to-surface missile.

Fins are the basic external difference between a bullet and a missile. A bullet spins for gyroscope stability to keep it flying straight, while a missile depends on its fins for aerodynamic stability as it streaks toward its target.

This big difference seems to be reduced with each new missile put on the line. Missiles are looking more like bullets every day.

The first missiles had big fins, indicating they needed a lot of "lift" and control at their relative slow speeds. As they became faster and faster, some at several times the speed of sound, the fins grew smaller. Maneuverable fins are only of any use to control missiles operating inside the Earth's atmosphere. Above 200,000 or 300,000 feet, some reaction device other than fins, such as small jets, are needed to change the direction of a missile.

One of the early air defense missiles, Nike Hercules, had big fins on both of its stages. Sprint, an extremely fast anti-missile missile now under development as a major component of the Nike-X missile defense system, has only

Pershing Impacts As Programmed

An Army Pershing missile was launched June 16 from Gilson Butte, Utah, and impacted on White Sands Missile Range as programmed.

The firing was accomplished by Battery B of the 1st Battalion, 81st Artillery which is stationed in Germany. It will return to its home station later this month. The unit is the second to return from Germany for annual firing practice, the first having fired in late May. The firing practice is conducted in the United States since no range is available in Europe with sufficient area.

Yesterday's firing completes a four round series conducted from Gilson Butte which is near Green River, Utah.

Pershing, the Army's longest range missile, was developed and is

four small, indistinguishable fins.

So closely related are these two different kinds of weapons that people who work in laboratories developing better bullets and better missiles exchange data that grows out of their research.

The American soldier still is firing bullets and probably will as long as there are wars and threats of wars. We've just put fins on some of them, given them "brains" to guide to the target, stuck propellant motors in their tails . . . and call them missiles.



ALABAMA MUSICIANS AT OLE MISS—Six young Alabama musicians are among the participants attending the Third Annual University of Mississippi Summer Band camp which is being held this month. Alabamians pictured here talking with Ronald Thielman (right), camp director, are (from left seated) Aileen Marie Totten and Richard John Totten, both of Huntsville, Wayne Hyatt of Russellville; (standing from left) Curtis Shelby Mayes of Sulligent, Jim Liner of Trussville, and Craig Sizemore of Sulligent. Mr. Curtis Ikard of Russellville is serving as an instructor at the Ole Miss camp which is being attended by young musicians from over the Mid-South. Aileen Marie and Richard John are the children of Mr. and Mrs. Harold Totten. He is a member of the staff in the Automatic Data Processing Division of the Production and Procurement Directorate.

managed by the Pershing Project Office at the Army Missile Command, Redstone Arsenal. Col. Edwin I. Donley is Project Manager.

Transportation Meeting
National Defense Transportation Association's Huntsville Chapter

will hear Maj. Gen. I. Sewell Morris (ret.) June 24. Meeting begins at 6:30 p.m. at the Redstone Officers Open Mess.

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Maj. Cole Wins Spring Handicap Tournament

The Spring Handicap Tournament at Redstone Arsenal finished with Maj. William A. Cole of the Sergeant Project Office winner by one stroke over Maj. R. Nix (ret.), 76-77. Play was on the Redstone Arsenal Golf Course during May.

Among the 96 entries, six flights of 16 players each competed for a place in the final 18 holes of medal play with handicap.

The next four players in descending order were: E-6 S. J. Crawford, 78; Lt. D. Chenault and E-4 P. Spelar, tied with 79; and Lt. J. Brownlee, 80.

Trophies were awarded by Maj. Gen. John G. Zierdt, Commanding General of the Army Missile Command, in a ceremony on the practice green beside the Arsenal Golf Course Clubhouse. Trophies were awarded the flight winners and runnersup.

In the first flight, Maj. Nix defeated Sgt. R. Edge 4-2. Lt. Chenault defeated E-6 N. R. Lutz one up on 19 holes.

Maj. Cole defeated SFC R. Seal one up in the third flight and E-4 Spelar was one up over Maj. J. Harris (ret.).

The fifth flight went 19 holes with Lt. Brownlee edging out Lt. Col. F. R. Spiva, one up.

Sixth flight winner, E-6 Crawford defeated CWO G. Pratt, 5-3.

The Spring Handicap is an annual event conducted by the Special Services Golf staff under Arsenal Pro James MacClure.



HANDICAP WINNERS—The winners in the Spring Handicap Golf Tournament pose with their trophies beside the Clubhouse at the Redstone Arsenal Golf Course. Members of the first flight were not present to receive their trophies. Flight winners (left to right kneeling) are: Lt. C. Chenault, second flight; Maj. William Cole, third

flight; E-4 P. Spelar, fourth flight; Lt. J. Brownlee, fifth flight; and E-6 S. J. Crawford, sixth flight. Runnersup (left to right) are: E-6 N. R. Lutz, SFC R. Seal, Maj. J. Harris, Lt. Col. F. R. Spiva and CWO G. Pratt. Maj. Gen. John G. Zierdt presented the trophies.

CIVILIAN SOFTBALL

Standings

	W	L
Fin & Acct	7	0
Sup Command	5	1
Communications	4	1
Propulsion Lab	4	1
Pershing	3	3
Documentation	2	3
Data Processing	2	3
S & M Lab	1	3
Computation Lab	1	3
Sup & Maint	1	4
Nike X	0	4
Proc & Prod	0	4

Friday's games

- 5:15 Nike X vs. Pershing
- 5:15 Prop Lab vs. Prod & Proc
- 6:45 Nike X vs. Communications
- 6:45 Comp Lab vs. S & M Lab
- 8:15 Documentation vs. Sup & Maint

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Washington (AFPS) — Deputy Secretary of Defense Cyrus R. Vance has signed a new Department of Defense directive modifying the policy established last year concerning eligibility of military personnel to receive special or "combat pay" for those subject to hostile fire.

The new policy will permit all military personnel located in geographic areas designated by the Secretary of Defense to become eligible for the special pay. The unified or specified commander concerned will be responsible for determining specific locations or areas within the previously designated area in which personnel may be excluded from receiving the special pay due to lack of risk.

The new directive also authorizes the special pay of \$55.00 per month to be paid to the beneficiaries of personnel killed or to the military member, if wounded or

injured by hostile fire, explosion of hostile mines, or any other battle action, regardless of whether or not the incident occurred in a previously designated area.

Under this new modified policy, all US military personnel serving in the Republic of Viet-Nam will be eligible for the special pay, unless certain areas are excepted by the unified commander.

Other geographic areas in which military personnel may become entitled to the special pay will be designated by the Secretary of Defense as appropriate.

In separate action, the Department of Defense had previously provided authorized special pay for duty subject to hostile fire in the Dominican Republic for those personnel who were killed or wounded by hostile fire, explosion or hostile mine or any other hostile action in that operation.



CO. C COPS PISTOL TEAM AWARD—One of Col. William J. Macpherson's last official presentations before leaving the Ordnance Guided Missile School was a pistol team trophy to Lt. Richard R. Rice, CO of C Company. The company won the honor over the Support and Missile Commands. Spec. Andy Hoover, left, was high scorer of the pistol crew.

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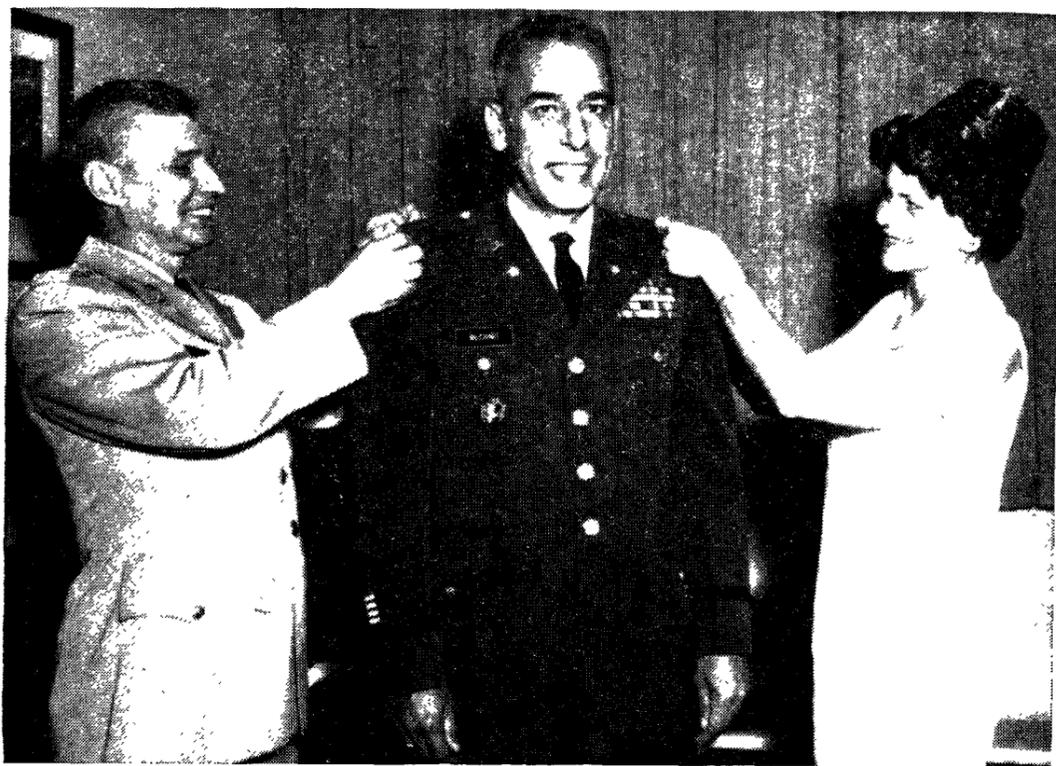
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COL. MCGINNIS PROMOTED—Getting his new eagles pinned on is Col. Eugene J. McGinnis who was promoted last week in ceremonies at the Missile Command. Doing the honors is Brig. Gen. C. W. Eifler, who gets an assist from Mrs. McGinnis. Col. McGinnis is Deputy to Gen. Eifler who is Deputy Commanding General for Land Combat Systems.

Lt. Col. E. J. McGinnis Promoted To Full Colonel

Lt. Col. Eugene J. McGinnis, Deputy to the Deputy Commanding General for Land Combat Systems, Friday was promoted to full Colonel at the U. S. Army Missile Command.

Doing the ceremonial honors for Col. McGinnis was his boss, Brig. Gen. C. W. Eifler, who joined with Mrs. McGinnis in pinning on the new silver eagles.

As Deputy to Gen. Eifler, Col. McGinnis helps direct the broad range of Army missiles developed for surface-to-surface operation.

Among these weapons, managed by the Missile Command, are such familiar names as Pershing, Sergeant, Honest John and Littlejohn.

Col. McGinnis came to Redstone Arsenal less than a year ago as Executive Officer for Technical Operations under Gen. Eifler. Prior to that, he served a tour in Washington in the Office of Assistant Chief of Staff for Force Development.

Among other duty assignments, he has been stationed in Vietnam, Japan, Phillipines, New Guinea

and Germany.

A native of Arenzville, Ill., Col. McGinnis has attended the University of Maryland, the University of Alabama, and the Command and General Staff College at Fort Leavenworth, Kansas.

His decorations include the Arrowhead, two battle stars, Army Commendation Medal and the Bronze Star Medal.

Col. McGinnis is married to the former Dorothy Lillian Hood of Crystal Springs, Miss., and they have two children, Walker Lelon and Elizabeth Jean.

Memorial Donation To Go To Brain-Damaged Children

A \$255 contribution will be donated to the Association for the Education of Brain-Damaged Children Inc. in memory of the late Thomas E. Bobenia, who served as an electronics instructor at the Army Ordnance Guided Missile School.

Mr. Bobenia was a member and strong supporter of the Association. School personnel contributed to the memorial fund.

Here's a Star-Spangled opportunity — buy U.S. Savings Bonds where you work or bank. Help advance your country's security while you increase your own.

FORMER REDSTONE COMMANDER ANNOUNCES JULY RETIREMENT

Col. Keith T. O'Keefe will end a 33-year U.S. Army career on July 31 when he retires following completion of his tour of duty as Watervliet Arsenal commanding officer which he began in February, 1962.

His successor in the arsenal command has not yet been announced.

Col. O'Keefe, his wife, and daughters, Susan, 17; and Patricia 8; will make their home in Troy. His future plans will be announced shortly.

Col. O'Keefe came to Watervliet from Brooklyn where, since 1959, he was chief of the US Army Overseas Supply Agency. He had previously commanded Redstone Arsenal, Ala., and the Lordstown Ordnance Depot, Warren, O.

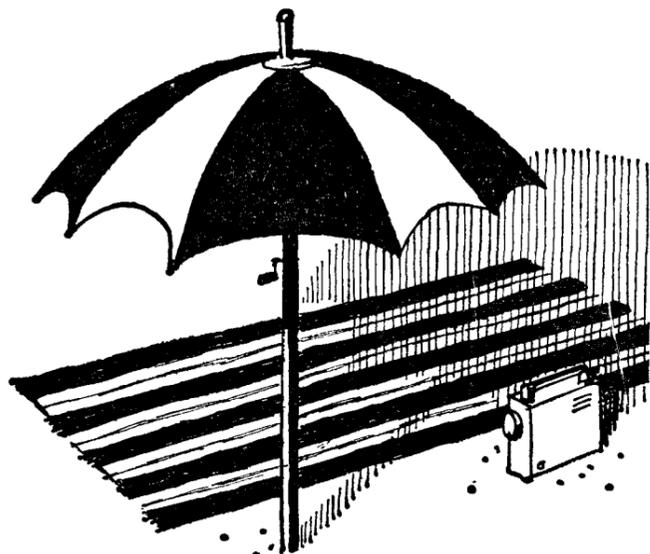
A native of New York City he is a graduate of City College of New York and holds an MS in mechanical engineering from Polytechnic Institute of Brooklyn. He is also a graduate of the Army War College and the Command and General Staff School.

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Red Cross Volunteers Install New Officers

Installation of officers and awards for service climaxed a coffee the past week by the Redstone Arsenal Red Cross Volunteers.

Mrs. Glenn Crane was presented epaulettes as Chairman by Maj. Georgia Hasler, Chief Nurse at the Redstone Army Hospital. Col. J. G. Higgins, Post Surgeon, was present for the installation.

Mrs. R. W. Mundy is past Chairman of Volunteers.

In addition to the installation, service stripes, certificates and recognition were awarded to members who served during the past year at the Hospital, the Dental Clinic and the Bloodmobile.

New committee chairmen and vice chairmen for the coming year are: Mrs. Donald E. Burnett, Bloodmobile chairman; Mrs. Norris E. Hightower, vice chairman for Hospital Volunteers; Mrs. Robert C. Brouns, vice chairman of Dental Clinic Volunteers; Mrs. J. Mort Loomis, vice chairman, Nurses Aide Volunteers; Mrs. James E. Brown, vice chairman of publicity; Mrs. Kenneth D. Cobb III, vice chairman of Records and Recognitions; Mrs. William A. Shunk, vice chairman and Mrs. Joseph Holmes, assistant to vice chairman of Red Cross Volunteers.

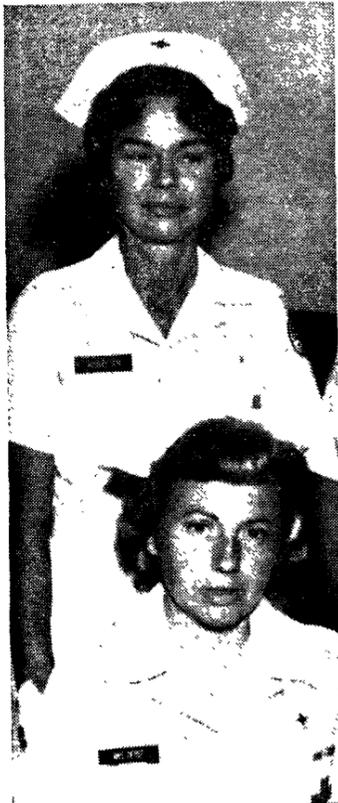
These vice chairmen replace Mrs. Roy Hammond, vice chairman of Gray Ladies; Mrs. I. V. Gulbranson, vice chairman of Recognition and Records; Mrs. C. D. Nielson, vice chairman of Hospital Volunteers; Mrs. R. B. Braid, vice chairman of Bloodmobile; and Mrs. Robert C. Brouns, vice chairman of Dental Clinic Volunteers.

Remaining volunteers in the same capacities they held this past year are Mrs. Loomis, Mrs. Brouns, and Mrs. Brown.

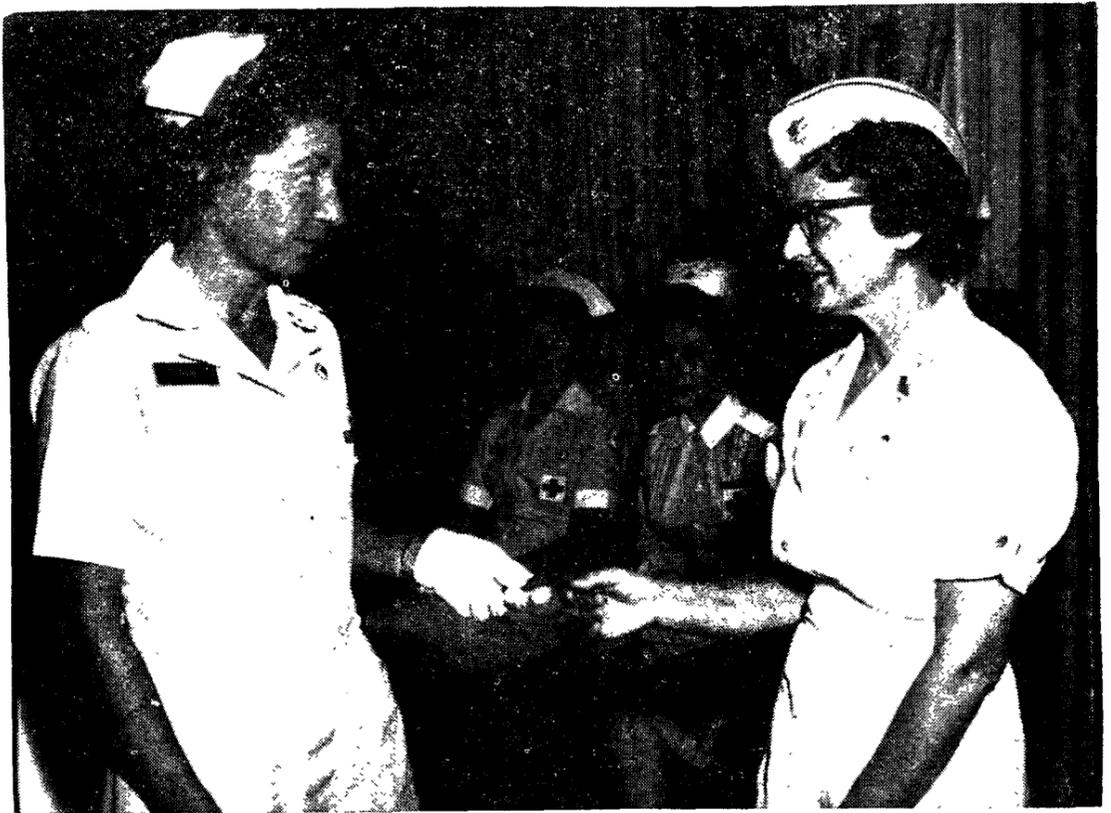
The honorary Chairman of Volunteers is Mrs. John G. Zierdt, active on the Gray Lady Bloodmobile staff.

In addition to the introduction of the new chairmen for the activities, awards were made for hours served in the various Gray Ladies, Nurses Aides and Red Cross Aides categories as well as for five, ten and twenty years of Volunteer work.

The new Red Cross Director, Jim Smith was introduced at the Coffee by A. G. Scarbrough who has been on duty as temporary field director for the past eight months.



MRS. S. W. JOSEPHSON
Bloodmobile Assistant
MRS. J. G. ZIERDT
Honorary Chairman



SYMBOL OF OFFICE—Mrs. Glenn Crane, new Chairman of Red Cross Volunteers at Redstone Arsenal, accepts epaulettes from Maj. Georgia Hasler, Chief Nurse at the U. S. Army Hospital. In the background are Mrs. Roy Hammond and Mrs. I. V. Gulbranson. Mrs. Hammond has served the past year as Chairman of Gray Ladies, Mrs. Gulbranson as Chairman of Recognition and Records.



MRS. ROBERT C. BROUNTS
Dental Clinic
MRS. WILLIAM A. SHUNK
Vice Chairman of Volunteers



MRS. JOSEPH HOLMES
Assistant to Vice Chairman
of Volunteers



MRS. DONALD E. BURNETT
Bloodmobile Chairman



MRS. NORRIS E. HIGHTOWER
Hospital Volunteers



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CLINICS TO BE HELD AT AUBURN

Five electrical engineering clinics for personnel engaged in space-connected industries are to be offered Aug. 23-27 at Auburn University.

Closed Loop Control will be directed by Prof. Dallas W. Russell. Dr. Edward R. Graf will direct Electromagnetic Fields and

Waves, while Dr. James L. Lowry will direct Matrix and Tensor Methods. At the same time, Dr. Graf is to direct the clinic on Parametric Electronics and Dr. Charles L. Phillips will be director for Sampled-Data Control Systems.

Purpose of each clinic is to strengthen and deepen the knowledge of each participant, according to officials in Auburn's Electrical Engineering Department and Engineering Extension Service, sponsors. Efforts will be made to

TULLOCH ELECTED

Stewart B. Tulloch, Materials Branch of the Research and Development Directorate Structures and Mechanics Laboratory, has been elected the vice chairman of Committee T 9 in the National Association of Corrosion Engineers. He succeeds Anthony Gallacio of Frankford Arsenal.

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Accountants To Hear Col. Marcelle

The final meeting of the Federal Government Accountants Association for "FGAA Year 1964-65" will be Thursday, June 24, at the Redstone Officers' Open Mess at 6:30 p.m.

Guest speaker will be Col. D. A. Marcelle, Army Missile Command Finance and Accounting Officer. The subject of Col. Marcelle's talk will be "The Future of the Government Accountant" with emphasis on the impact of science and technology on the profession.

All FGAA members are encouraged to attend this meeting as a fitting climax to a most successful year.

Lt. Spatz, Mrs. Tyler Win At Bridge

At Monday night bridge, Lt. Herbert Spatz and Mrs. S. W. Tyler were winners for the men and women respectively during play at the Redstone Officers Open Mess last week.

Among the five tables in play, Mrs. A. V. Garrabrant and Glenn Schliehus were runners up.

Five tables of players competed. Reservations to play with the group are handled by Mrs. R. U. Scott, 772-3273.

Mrs. Hardeson Wins At Thursday Bridge

At Thursday bridge Mrs. J. M. Hardeson was the winner among the five tables of competitors in the Group sponsored by the Redstone Arsenal Officers Wives Club at the Officers Open Mess.

Runnerup was Mrs. Stephen J. Dobbs with Mrs. Jose Pontyas in third place and Mrs. Thomas G. Ellis low. Five tables were in play.

Reservations to play with the group are handled by Mrs. A. J. Matthews, 539-9958.

WIVES SERVICE ORGANIZATION PROPOSED HERE

A new service organization is proposed for the wives of both enlisted and officer military personnel residing in the Huntsville area while their husbands are overseas, and for widows of service men in the area.

The purpose of the group would be to give assistance to these wives when the Army can offer help, and to keep them informed on items of interest such as schedules for dependent care in the medical facilities and news about post activities by periodic mailing of newsletters.

Those interested in this service should call the Adjutant's Office in the Army Missile Support Command, 876-3816, and give their name, address, phone number and husband's rank and status.

If there is enough interest, the wives may later organize into an informal group.

Support Command Wives Plan July 1 Coffee

The wives of officers assigned to the Army Missile Support Command will have a Coffee on the patio at the Redstone Open Mess Swimming pool Thursday, July 1, at 10 a.m.

Reservations are being handled by Mrs. R. E. Lees, 877-4757 and Mrs. E. J. Kidd, 877-5061. Reservations deadline is Tuesday. Cancellations can be made until noon Wednesday.

Astronomers Meeting

The Rocket City Astronomical Association will meet at the University of Alabama Huntsville Campus June 24 at 8 p.m.

Dr. James B. Dozier, chief of physics and astrophysics in the Research Projects Laboratory and head of the Pegasus Data Evaluation Group, will talk about the Pegasus project.

The association will meet in Room 100.



INITIATION—Brig. Gen. and Mrs. Howard P. Persons, Jr., left, become members of the Royal Order of Redstone Rocket Heroes and Heroines at the farewell party given them Saturday night in the Redstone Arsenal Officers Open Mess. Maj. F. H. Niedermeyer, holds the official insignia of the Order as Col. B. R. Luczak recites the accomplishments which made them eligible for membership in the mythical and slightly mystical organization. The Persons have departed for Colorado where the general is being assigned to the Army Air Defense Command. He served as Deputy Commanding General, Air Defense Systems, at the Army Missile Command.



BELGIANS LEARN ABOUT LANCE—Brig. Gen. C. W. Eifler, Deputy Commanding General, Land Combat Systems, shows a model of one of the Army's newest missiles, Lance, to Maj. Gen. Marcel J. Vranckx, right, President, Belgian Armed Forces Committee for Coordination of Scientific Activities. Looking on is Maj. Jean Wallef, Director, Belgian Center of Military Studies. The Belgians were at the Army Missile Command Monday for briefings on air defense and anti-tank missiles.

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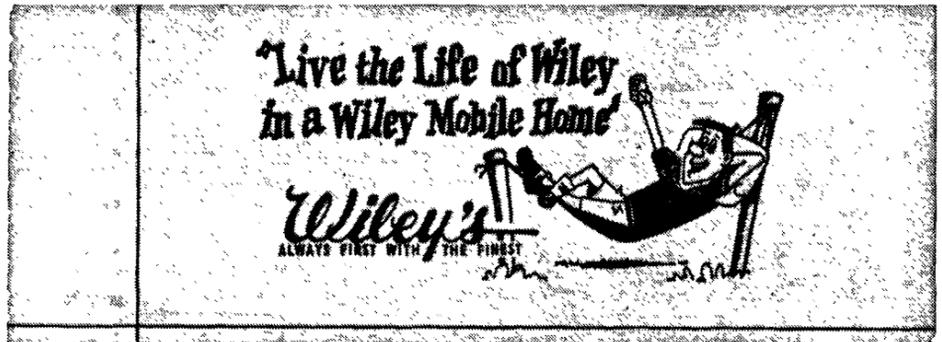
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Maj. Gen. J. M. Cone To Command White Sands

WHITE SANDS MISSILE RANGE, N.M. — A veteran Ordnance Officer with more than 32 years active Army Service has been named to command White Sands Missile Range effective Aug. 1.

Maj. Gen. John Martin Cone, currently Director of Quality Assurance Headquarters U.S. Army Materiel Command, Washington, D.C., will assume command from Maj. Gen. J. Frederick Thorlin who has announced his retirement on July 31.

Gen. Thorlin has commanded White Sands Missile Range for the past three years.

Gen. Cone was born in Ft. Collins, Colo., in 1914. He was graduated from the U.S. Military Academy in 1937 and was commissioned a second lieutenant of Field Artillery.

His first duty assignment was to the 18th Field Artillery, Ft. Sill, Okla. Two years later, he was detailed to the Ordnance Department and in the main served in Ordnance commands until 1962 when he was assigned as Director of Maintenance, Supply and Maintenance Command, Washington.

Among his decorations Gen. Cone wears the Bronze Star Medal, the French Croix de Guerre, and the European African Middle East Campaign Medal with five bronze stars.

During World War II, while a lieutenant colonel, Gen. Cone was assigned as Ordnance Officer, IX Tactical Air Command.

Gen. Cone's last assignment in aviation ordnance was as Ord-



MAJ. GEN. J. M. CONE

nance Officer, Ninth Air Force, in Germany.

Gen. Cone served as Commanding Officer, Anniston Ordnance Depot in Alabama from January 1959 to August 1960 and was then ordered to the Office, Chief of Ordnance in Washington. He next was named Chief of Plans and Programs Division of the office and in June 1962 was assigned to the Supply and Maintenance Command. He has served in the far East as well as Europe.

Gen. Cone is married to the former Cynthia A. Martin of New Orleans, La. They have one son, John M. Jr., a student at Michigan State University.

SUNDBERG TALKS TO OGMS CLASS

American and West German students at the U.S. Army Ordnance Guided Missile School here were graduated Friday at an informal commencement exercise.

The 21 missilemen heard an address by CWF Derwin C. Sundberg, project officer at the School's Nike Missile Division. The ceremony was one of the smallest of the 22 graduations held at the school this year.

Courses represented at the ceremony included two Nike missile repair courses and a specialized ballistic missile class.

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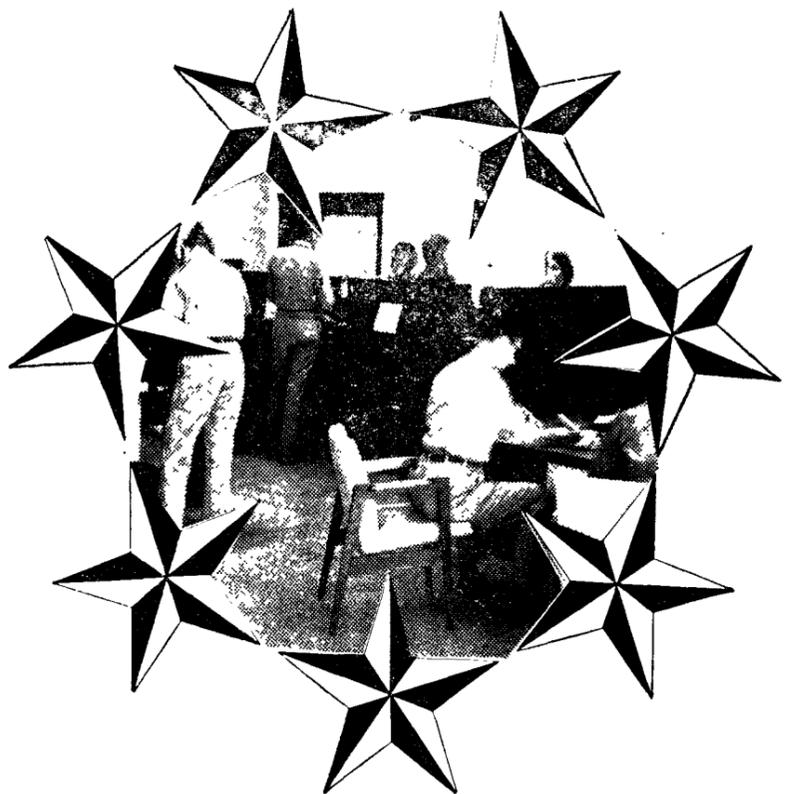
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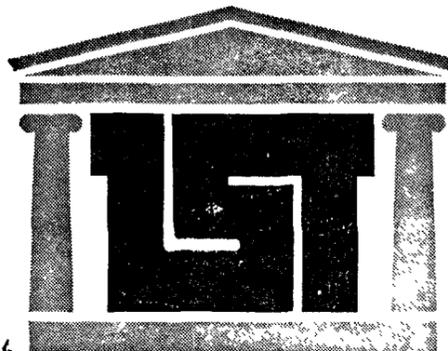
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Airmobile Division Being Formed By Army

Secretary of Defense Robert S. McNamara has announced that the Army has been authorized to organize an airmobile division as part of its currently authorized 16-division force structure. The new division will be organized and made combat-ready as expeditiously as possible at Ft. Benning, Ga., and will be designated the 1st Cavalry Division (Airmobile).

Secretary McNamara said: "The introduction of this new kind of division into the Army will greatly increase our growing capability to meet all kinds of threats. It places the Army on the threshold of an entirely new approach to the conduct of the land battle. Use of the helicopter to deliver men and weapons on the battlefield will result in greater freedom of movement and exploitation of the principle of surprise to an unprecedented degree.

"The initiative and imagination of the officers who pioneered this concept are especially to be commended. "The new division will be formed from resources now available within the Army. Personnel and equipment will come from both the 2nd Infantry Division and the

experimental 11th Air Assault Division now at Fort Benning. The 1st Cavalry Division, now in Korea, will be redesignated the 2nd Infantry Division.

"The Secretary also has asked the Chief of Staff, U. S. Army, to recommend to the Joint Chiefs of Staff by not later than Jan. 1, 1966, the specific major airborne and airmobile units to be included within the Army's 16-division structure.

"The development of the airmobile division is the result of three years of study, experiment, text and evaluation by the Army, the Air Force, and the U. S. Strike Command since April, 1962, when Secretary McNamara asked the Army to take a new look at its tactical mobility, including the greater use of aviation. The basic concept of the new division evolved from the comprehensive program of studies and tests conducted by the Army's Tactical Mobility Requirements Board, also known as the Howze Board, which was formed in response to the Secretary's request. The concept was subsequently evaluated by the Joint Chiefs of Staff after which the Army organized the experimental 11th Air Assault Division and the supporting 10th Air Transport Brigade in Feb., 1963, to further test and develop it.

"The new 1st Cavalry Division (airmobile) will have a strength of 15,787 personnel and will be equipped with 434 aircraft, almost all of which will be helicopters. One-third of the division's combat elements will be able to move simultaneously in the Division's own aircraft while the remainder can be moved on a shuttle basis or by supporting Army or Air Force aircraft.

One of the division's brigades will be capable of parachute operations. The division will be equipped with approximately 1,600 ground vehicles.

"By comparison, the present Army Road Infantry Division has about 15,900 personnel, 101 aircraft and 3,200 ground vehicles.

"This new type of division will make its greatest contribution to improved combat effectiveness in operations where terrain obstacles and undeveloped communications networks could give enemy guerrilla or light infantry forces an advantage over our standard formations. The tactics, techniques and procedures to be employed by an airmobile division result in a markedly different approach to the solution of these tactical problems. Use of aircraft to bring units directly to the battlefield and to remove them provides a capability that did not previously exist to redeploy our combat forces immediately to other areas.

"The airmobile division will be capable of conducting operations in all types of terrain. It can react quickly and maneuver rapidly over large areas. It can reconnoiter, screen wide fronts, delay hostile forces, and conduct raids behind the enemy lines. The division is particularly effective in locating and maintaining contact with the enemy or between other friendly forces, and in countering hostile airmobile, airborne, and irregular forces.

"The new division does not replace the standard the heavier infantry, armored or mechanized divisions. It is being adopted because of its special capabilities which are not found in the other division."

Newscasts To Continue

Newscasters PFC R. C. Bluemke and Sp/4 Gerhardt Haneman will continue to broadcast the latest in news, sports and features daily at 8:45 a.m. and 4:20 p.m. on OGMS

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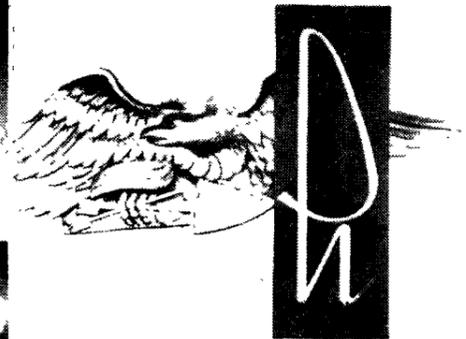
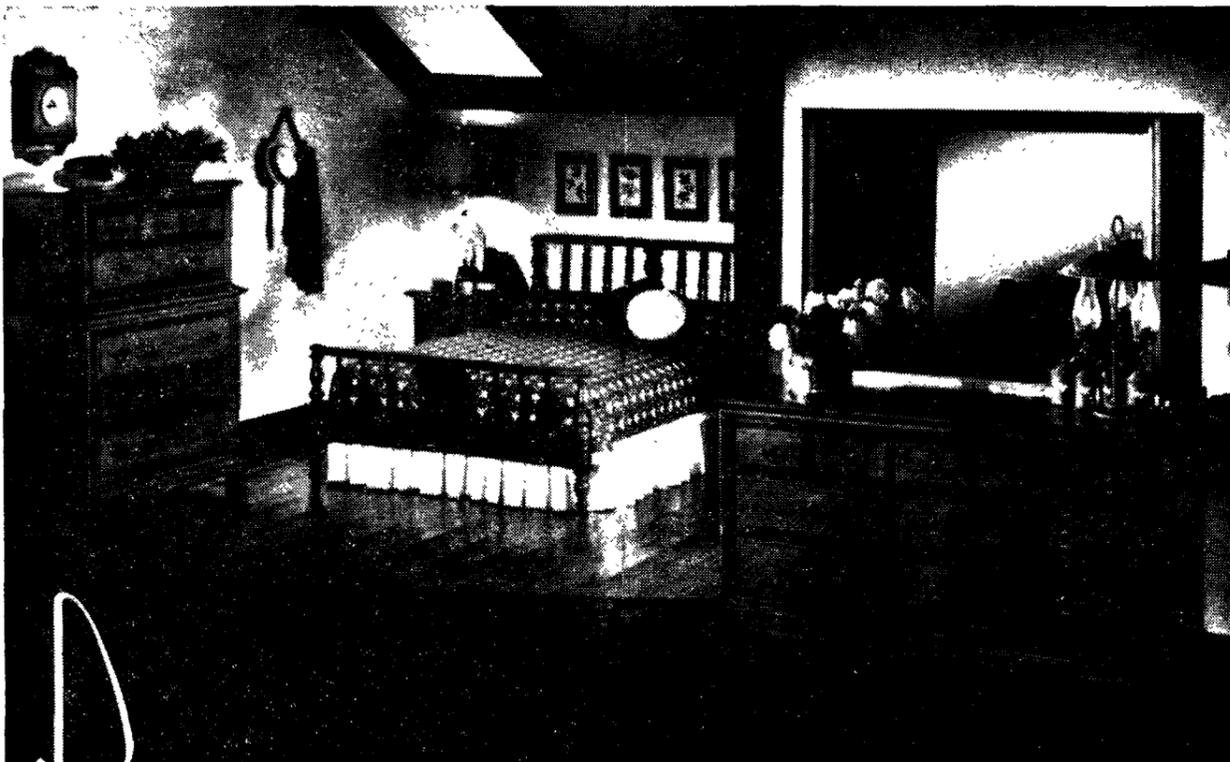
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No. 3620 Chairback Spindle Bed 4/6 only. Height head 39 in. Height foot 24 in.

No. 3661 Triple Dresser Base, 11 drawers, top 61x20 in. Height 33 in.

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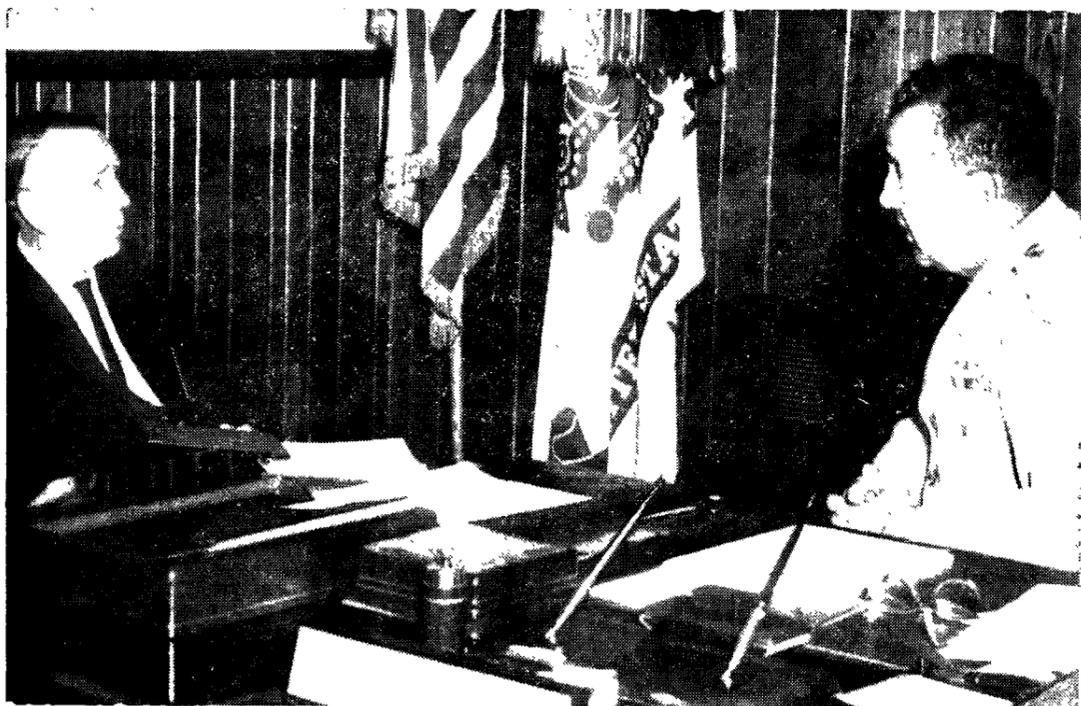
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VISITS MISSILE COMMAND—Thomas Charles Sharman, British Consul-General from the Atlanta, Ga., District, talks with Maj. Gen. John G. Zierdt during his visit to Redstone Arsenal last week. Mr. Sharman met with other British officers during his stay at the Army Missile Command.

JULY CALL 17,100

The selective service system will call seventeen-thousand one-hundred men to Army duty during July. The Department of Defense request has been computed to cover Army manpower losses for that period. It is expected that

enlistments will make up the balance of July's twenty-seven-thousand four-hundred overall procurement objective for enlisted men with no prior service. The other branches of the Armed Forces are not placing July calls with selective service.



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SOUTH SIDE SQUARE — DOWNTOWN

Foreign Students Have Busy Social Life In Free Time

Eleven missile students of the Netherlands stationed at the U.S. Army Ordnance Guided Missile School, attended a swimming party and a dinner sponsored by the Cosmopolitan Club.

The event was staged at the home of W. C. Rutenberry, 1203 Westmoreland Ave., SE.

Earlier, 19 Spanish students and their dependents departed Huntsville for a tour of Chicago, Ill.

Other social events involving foreign missile students include a tour of Atlanta, by 37 Japanese and eight Chinese missilemen. Korean students attended a picnic at the Redstone Arsenal boat docks.

A number of civic and social clubs throughout Madison County have invited foreign students to attend group events, Maj. A. Q. Woodard, chief of the School's Foreign Liaison Division reported.

Liquid Propellant Contract Goes To Rohm And Haas

A \$96,850 contract has been awarded to the Rohm and Haas Company for a liquid propellant development program, it was announced today by the Army Missile Command.

Work under the contract will be done at the Redstone Arsenal Research Division of the company over a 12 month period.

The contract was negotiated and executed by the Missile Command Procurement and Production Directorate headed by Col. B. A. Saholsky.

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HANDBAGS
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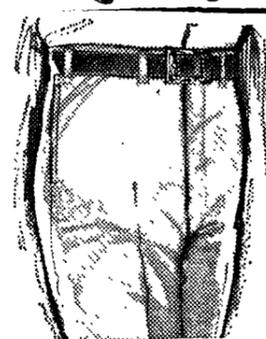


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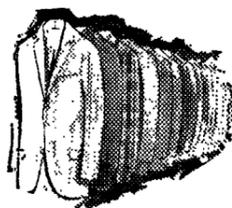
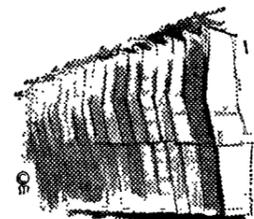


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 - 2 - 50 X 10-2 bedroom Southern Homes, \$4295.
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- NEW NORRIS CAMPERS IN STOCK.
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1963 Volkswagen camper deluxe Station Wagon. 14,000 miles. See this on our lot. \$1695.

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4707 Governor's Dr., W.
Ph. 837-1980

Five Engineer Veterans Honored

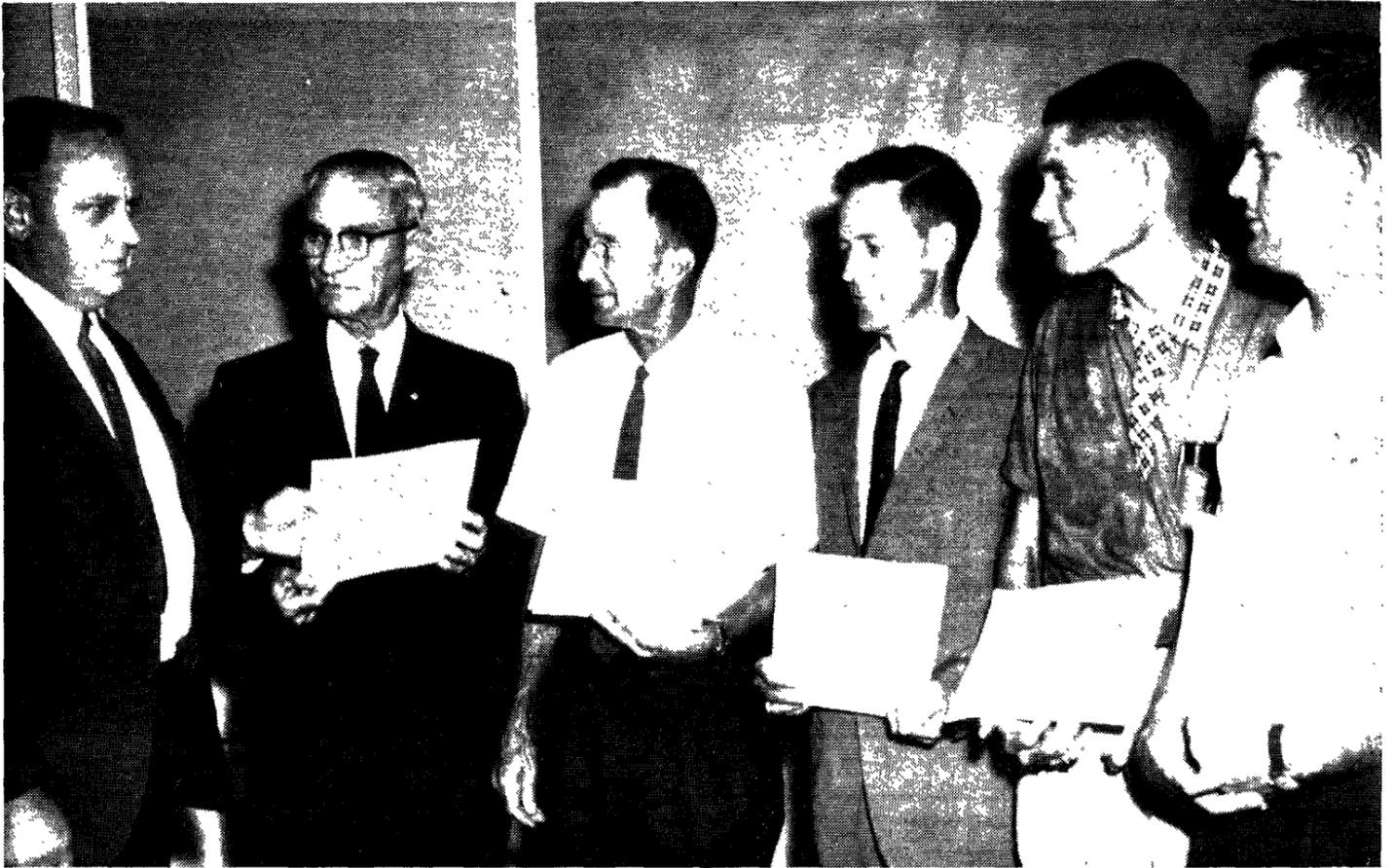
Five veteran employees of the Army Engineers with a total of 80 years of government service were honored last week when J. L. Abercrombie, Area Engineer at Redstone Arsenal, presented them with fighting Engineering-Construction Organization emblems denoting employment over a period of years.

Earning the awards were: Norman E. Waldrop with 30 years; Robert P. Ellis, 20 years; Kenneth D. Cole, James E. Fowler and Robert F. Schell, all 10 years each.

The annual awards event is traditionally held on June 16, the Corps of Engineers anniversary. This year, the military-civilian organization is 190 years old, having been authorized by the Continental Congress in 1775. The first Chief of Engineers was appointed by Gen. George Washington. The present Chief, Gen. W. K. Wilson, Jr., is the 41st.

The Mobile District, one of the oldest in the Corps of Engineers, celebrated its 150th Anniversary on May 4 this year.

The Area Engineer Office at Redstone was established in 1950. Since 1950, the Area Engineer Office has supervised construction of laboratories, administrative buildings, missile test facilities, family housing, roads and utilities at Redstone for the Army Missile Command, the Ordnance Guided Missile School and the George C. Marshall Space Flight Center



ENGINEER ANNIVERSARY NOTED—Five employees of the Area Engineer at Redstone Arsenal are awarded fighting Engineering-Construction Organization emblems denoting milestones in years of government employment. The presentations were made on the 190th anniversary of the Corps of Engineers. Receiving emblems

and citations presented by J. L. Abercrombie (left), Area Engineer, are, left to right, Norman E. Waldrop with 30 years; Robert P. Ellis with 20; Kenneth D. Cole, James E. Fowler and Robert F. Schell, all with 10.

which cost approximately \$225,000,000.

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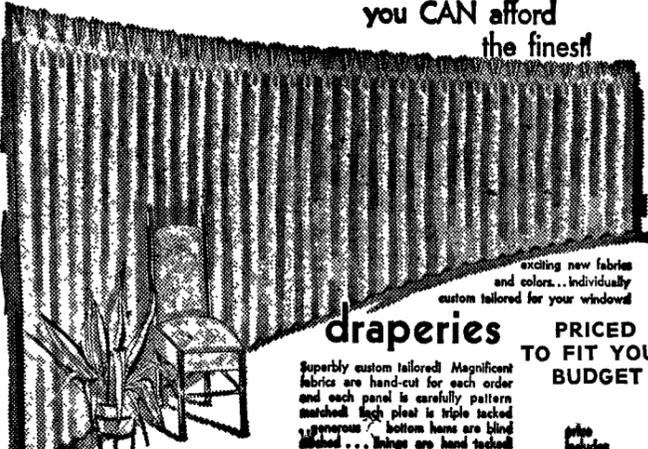
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Page 14 The Redstone Rocket — June 23, 1965

1. For Rent

FOR RENT—TV's portables, UHF-VHF, by day, week or month. 1964-65 models. Ph. 536-9761 Central TV and Stereo Co., corner Governor's Drive and Parkway. Open 8 a.m. to 9 p.m. daily. Phone 534-8689. tfc

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2. Cars For Sale

FOR SALE—1961 V.W. Sedan 29,900 miles, price \$900.00. Credit Union can finance. Phone 876-2879 or 881-1801. 1-1-c

1961 VOLVO 2 door sport sedan, motor in excellent condition, 25 m.p.g. tinted windshield, heater, white walls, bucket seats, very clean, call 741-1464. 1-1-c

1960 FORD automatic trans., power steering, good tires, excellent condition, one owner. Phone 534-8807. 1-1-c

1962 CHEVROLET IMPALA, factory air condition, 327 engine, radio, heater, tinted glass, power steering, new white wall tires, 21,280 miles, like new must sell call 534-4701 or after 5 p.m. 852-2063 1-1-n-c

3. Miscellaneous

TRAVEL TRAILER AND CAMPER—Rental reservations now being accepted for Spring and Summer. Madison Travel Trailer's, Corner Jordan Lane and Governors Drive. Phone 837-3882. 1-f-c

SUPPER SPECIALS IN EFFECT NOW—Fun for the entire family with a boat, motor and trailer from Anderson Boats & Motors, Cullman, Ala. Open 7 a.m. - 8 p.m. — Sunday afternoon by appointment. Call 734-1354 One location only. 31 Highway North in Cullman, Ala. tfc

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5. Houses, Lots - Sale

FOR SALE—Brown's Valley Farm, 289 acres. Price \$55,000. 150 acres in row crop, 31 acres in cotton allotment, 2 dwellings, barn, overflowing spring runs through entire farm. This farm on Highway 25, 7 miles east of Arab, 8 miles south of Warrenton. Contact E. G. Williamson, Real Estate Broker, P. O. Box 41, Cullman, Ala., or phone Cullman 734-6294 days; 734-9190 nights. tfc

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14 ACRES—Located 30 miles south of Huntsville, Ala., in city limits of Eva, Ala. Old dwelling. Beautiful building site. Natural lake site. Ideal for retiring couple or part time farmer. Price \$9,000. E. G. Williamson Real Estate Broker, Cullman, Ala., Ph. 734-6294. tfc

80 ACRES—Located 10 miles east of Hartselle, Ala., 1/2 mile west of Mount View Baptist Church. Good 3 bedroom dwelling with all modern conveniences, large barn, 40 acres in row crops, 10 acres in pasture. Price \$15,500. A. L. Aldridge, owner. E. G. Williamson Real Estate Broker, Cullman, Ala. Phone 734-6294. tfc

FOR SALE—40-acre farm, Super C tractor, equipment; 3 BR home, fireplace in den, modern conveniences, plenty water, new fences, pond. Located Cullman-Florette Highway, 2 miles north of Eva, 25 miles to Arsenal. \$16,000. William B. Wallace, Rt. 1, Falkville, Ala. 6-30p

BY OWNER—In Albertville, brick home on large corner lot, 3 bedrooms den, 1 1/2 baths, price \$14,400. 100% FHA financing. Call 878-3653. 1-1-p

7. Business

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15 Homes Sold
At Opening**

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**MOUNTAIN GAP
ESTATES**

PRICE RANGE

\$16,600 to \$20,600

Mountain Gap Estates is located in Southeast Huntsville, across the street from the new school construction to be started in July, 1965, and is near the Haysland Square Shopping Center. This subdivision is located 2 miles east of Memorial Parkway. Turn east on Kohler Road and watch for Mountain Gap Signs.

THESE HOMES . . .

Have 3 & 4 Bedrooms, Attached Single or Double Garage or Carport, FHA or G.I. Financing.

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\$15,800 TO \$17,600

MOVE IN 10 DAYS

All have 3 bedrooms, 1 1/2 baths, attached garage, glass sliding doors to patios, built-in oven, ranges, vent hoods and vanities in baths.

DIRECTIONS—Drive out Pulaski Pike to Mastin Lake Road and turn right to DAVIS HILLS SCHOOL. See our houses across from the school.

CALL JIM ALLEN OR RAY PRINCE

852-3601

**Carl Culverhouse
AND ASSOCIATES**

First Spanish Missile Class Graduates Friday

The first missile men from Spain will receive diplomas at the U.S. Army Ordnance Guided Missile School Friday, June 25.

The unit of some 30 officers and men of the Spanish Army will be addressed by a fellow countryman, Brig. Gen. Francisco Coloma, who is Spain's military attache to the United States. He is to arrive here on Thursday, and will be honored at a dinner at the Redstone Officers Club, with Col. Hobart V. Smith, acting commandant of the school as host.

The Spanish unit, headed by Lt. Col. Luis Garcia-Freca of Pamplona, will receive their certificates at a ceremony in the Redstone Arsenal Theater at 10 o'clock Friday morning. The unit will graduate along with 50 stu-

dents of the U.S., Greece and France.

Spain is the 18th nation that has sent missile maintenance students here for training.

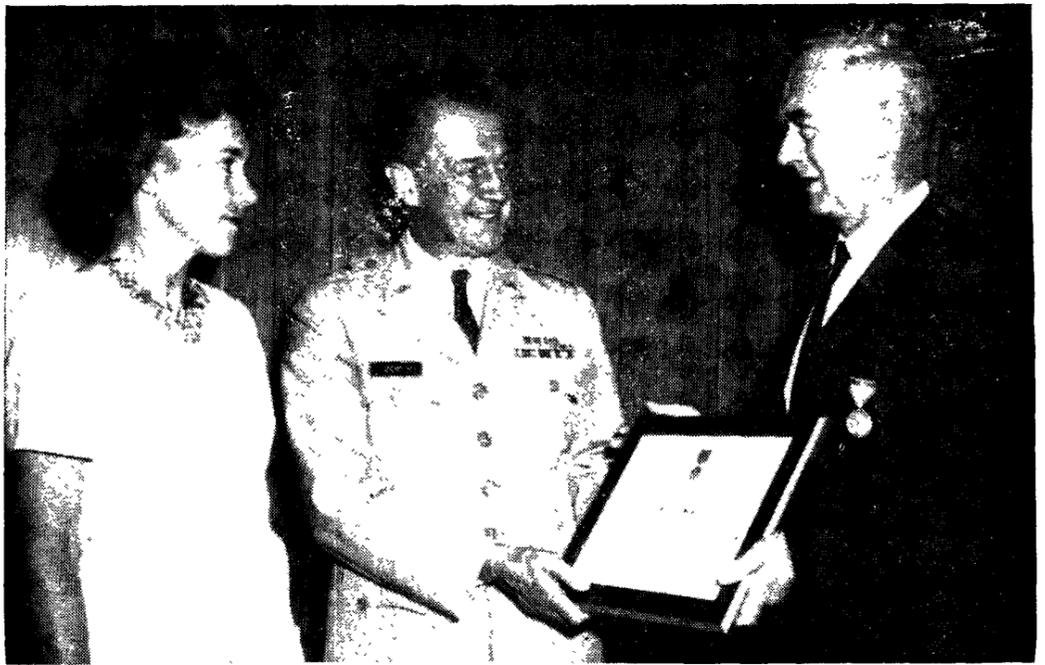
The Spaniards have been trained on the Hawk air defense missile system which is designed to intercept targets from virtual tree-top level to altitudes of several miles. The supersonic missile has also been successful in intercepting tactical missiles as well as aircraft.

Training of the Spanish unit was arranged by a special agreement between the United States and the European nation.

Spain is the third "non-aligned" nation to acquire the Hawk missile system. The others are Sweden and Israel.

The Hawk is standard equipment for the entire North Atlantic Treaty Organization and is also used by Japan, Korea and Nationalist China. The U.S. Marine Corps also deploys it, and now has a unit in Viet Nam.

The only truly decisive battle of the Civil War was fought at Nashville, Tenn., Dec. 15-16, 1864. The Confederate Army of Tennessee was defeated on those two winter days.

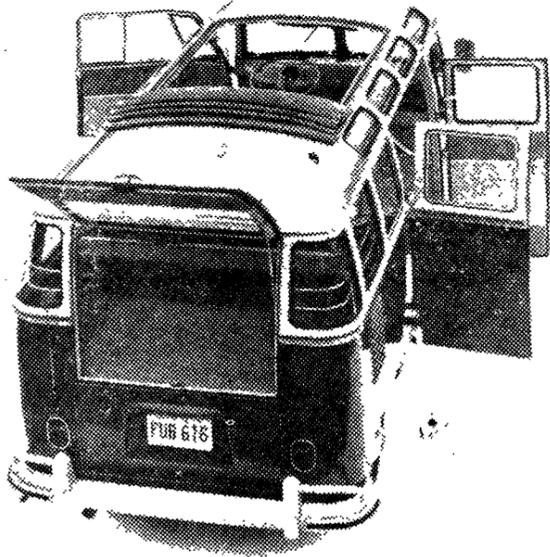


A PROUD MOMENT—Mrs. Frank W. James looks on as her husband is presented a plaque citing him for the highest award the Army can make to civilian employees. Maj. Gen. John G. Zierdt made the presentation of the Decoration for Exceptional Civilian Service in the name of Secretary of the Army Stephen Ailes. James is Director of the Propulsion Lab of the Directorate of Research and Development of the Missile Command.



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SATURDAY, JUNE 26th - 10:30 A.M.

GURLEY, ALABAMA

30 CHOICE RESIDENTIAL BUILDING LOTS

Property of Jeff D. Smith, Carey Walker, Jr. and Wm. H. Johnston.

KNOWN AS

GURLEY LAKE ACRES

These lots are approximately 80 ft. x 187 ft. and are located in the city limits of Gurley, Alabama. They have paved streets and city water on property. These 30 lots are a part of a 275-acre tract of land on which owners plan to build a 9-hole golf course and a 25-acre lake. Balance of land will be developed into residential property. VA and FHA APPROVED!

☆ PRE-SALE INSPECTION INVITED ☆

—TERMS—

THESE LOTS CAN BE PURCHASED FOR CASH OR 25% DOWN AND BALANCE FINANCED UP TO 3 YEARS AT 6% INTEREST WITH MONTHLY PAYMENTS.

—FREE—

100 SILVER DOLLARS will be given away to some lucky person attending this sale. Nothing to buy!

—DIRECTIONS—

Follow Highway 72 East to Gurley, Alabama, turn right at Standard Service Station in Gurley. Property is located approximately 1/2 mile on right. See signs on property.

—COLE— AUCTION COMPANY

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911 Madison Street

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Telephones Among Igloo Furnishings Not For Eskimos

An Army Missile Command order for telephone cable to run to the "igloo area" doesn't mean that this missile and rocket development center has started furnishing phone service to Eskimo residences in the Far North!

The order, one of hundreds placed by the Missile Command in the Southeast during May totaling approximately \$1.3 million, is for cable to the "igloo area" and another facility in the same direction.

Down by the igloos, built for ammunition storage during World War II, are test sites for missile systems where the phone cable will run.

Many orders reflect the season. Gravel, paint, paving contracts, air-conditioner parts and repairs, ready-mixed concrete all indicate summer maintenance of roads and buildings. Others include the goods and services used daily—business machine rental, chemicals, clothing, food, office supplies, printing and electrical service.

Companies in Huntsville received more than \$675,000 worth of business. Firms in cities across the state shared \$260,000 in orders, and \$150,000 went to Birmingham concerns. Georgia, Tennessee and Florida businessmen took \$165,000.

At The Service Club

By BETTY HAYES

Can you believe that this is the last week in June? The Third Army Show, HOLIDAY IN PARIS; the special show, THE STORK CLUB SCANDALS, and the big dance, THE JUNE BUG SWING are memorable June events which have passed.

Even though this is the last week of the month, there isn't a slack period in our programs. A swim party; a patio eat-out; and JUNE FROLICS are three big activities planned for the week, but wait a minute—I am getting ahead of myself!

Tonight at 8 p.m. a shuffleboard contest has been scheduled. Since many of you have spent many evenings and week-ends practicing this game, try your skill in the contest. Who knows—you may be the winner!

Do you like to play cards? If you come to the Service Club on Thursday evening at 7:30 p.m., you will have the opportunity to participate in your favorite card game when we play cardboard kapers.

Attention pool sharps! The monthly contest will be held on Friday evening at 8 p.m. Tell your friends about the event in order that we can have the biggest contest of the year.

On Saturday afternoon meet at the Service Club at 2 p.m. for the swim party to be held at the post pool. After an afternoon of swimming and sunning everyone is invited to the Service Club for a patio eat out at 6 p.m.

Coffee and donuts will be served on Sunday morning at 9 a.m.

The HEAT WAVE is the theme for the record dance on Sunday at 8 p.m. Dance to the popular records of the day with your favorite Junior Hostess.

Join us for a surprise evening of games on Monday night at 8 p.m.

The variety show entitled JUNE FROLICS will be presented on Tuesday evening at 8:15 p.m. Ray Keiss, Georges Le Guernic, Jack Taylor, Bill Morong, and "The Count Downs" are only a few of the Enlisted Men appearing in the show. For an evening of delightful entertainment you won't want to miss this event.

Georges Le Guernic, 291st M. P. Co., was the winner of the lucky service number for June. Be sure and put your service number in the box at the check-out counter next time you visit the Service Club. Who knows—you may have the winning number for July.

See you at the Service Club.

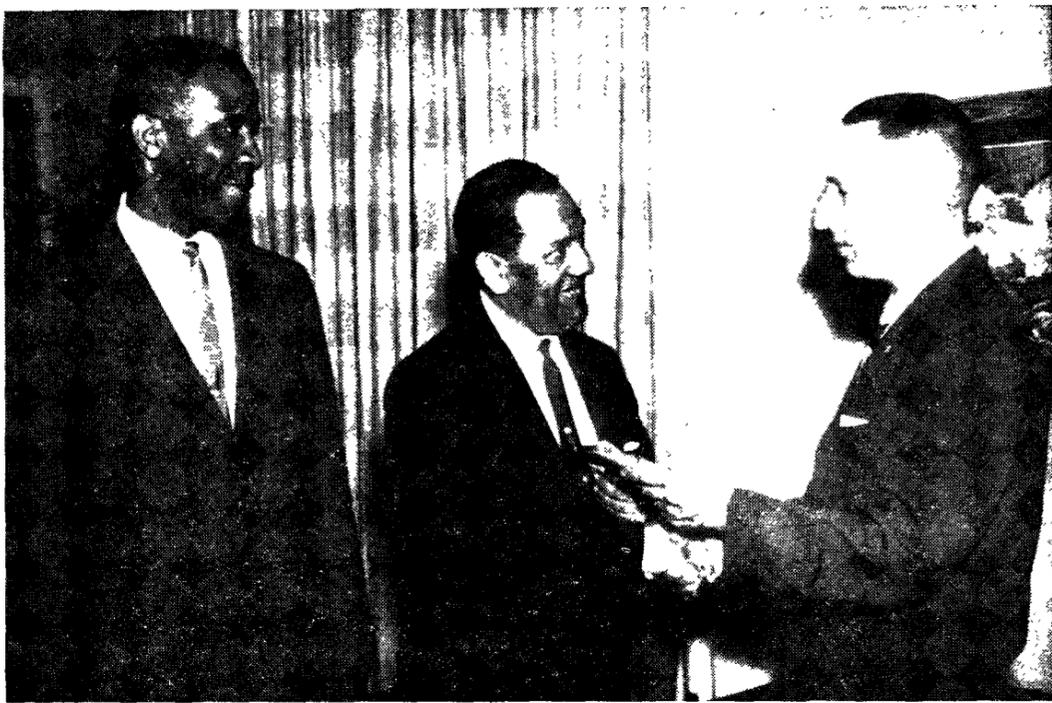
Outside the Southeast, reported awards totaled approximately \$1 million, excluding the contracts for a million dollars or more which go to rocket and missile prime contractors. Small businesses figure predominantly in the orders for goods and services.

The people who execute the awards are employed in the Missile Command Procurement and Production Directorate, and the Army Missile Command Purchasing and Contracting Division.

WASHINGTON (ANF) — The Department of the Army Flight Status Review Board convened on June 21 to make its annual screening of Army aviators on active duty.

Part of the Army's Flight Status Selection System, the Review Board insures that only qualified officers are retained on flying status.

Flight record files and official personnel records are completely evaluated.



THIOLKOL CONTRIBUTES \$500 TO UNITED NEGRO COLLEGE FUND — John H. Goodloe, General Manager, Thiokol Chemical Corporation, Huntsville Division presents a \$500 check to A. V. Pinkney, President, Oakwood College, as Adell Warren, Business Manager, Oakwood College, looks on.



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1961 Chevrolet Impala 4-dr., hardtop, tu-tone color, radio, heater, power steering, excellent condition.	\$1395.	1963 Studebaker Lark, 2-dr., st. stick.	\$800.
1956 Pontiac 2-dr. hardtop, radio, heater, auto.	\$195.	1963 VW Sedan, Ruby red, sharp.	\$1395.
1957 Dodge 4-dr., radio, heater, auto.	\$295.	1963 VW Sedan, Turquoise, 20,000 miles	\$1445.
1963 Mercury Meteor, 4-dr.	\$1295.	1962 VW Sedan, Turquoise, real nice	\$1145.
		1961 VW Sedan, Black	\$995.
		1960 VW Sunroof Sedan	\$895.
		1963 VW Deluxe Station Wagon.	\$1645.
		1961 VW Station Wagon	\$945.

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